

Figure 2

Vectest™

MALARIA Sporozoite Antigen Panel Assay

- ♦ *Plasmodium falciparum*
- ♦ *Plasmodium vivax* 210
- ♦ *Plasmodium vivax* 247

Store at room temperature

FOR INVESTIGATIONAL USE ONLY

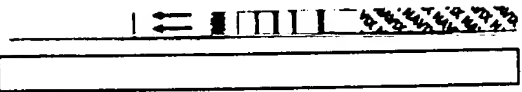
NAVIX
Medical Analysis Systems, Inc.
524 Flynn Road, Camarillo, CA 93012

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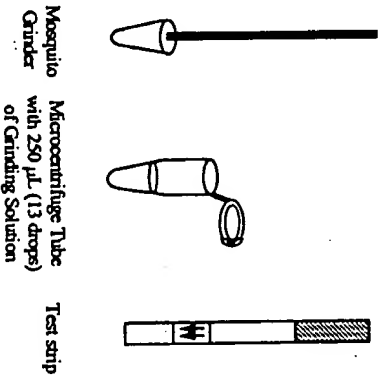
Signal pattern:

Control →
Pf →
Pv 210 →
Pv 247 →

Place your test
strip in the box
for comparison



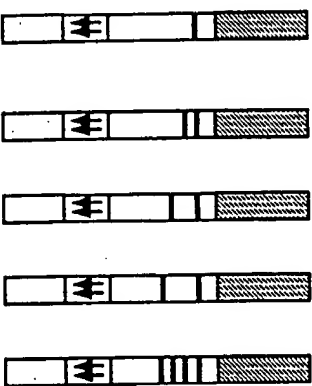
KIT COMPONENTS:



INTERPRETATION OF RESULTS:

Positive for different analyses:

Negative Pf Pf Pv 210 Pv 247 Pv 210 Pv 247



- The test should be interpreted positive only if at least two lines appear on the strip.
- The test is negative only if one line (control) develops on the strip.
- Discard strip if no lines develop. The test results are not valid if control line does not develop.

PROCEDURE:

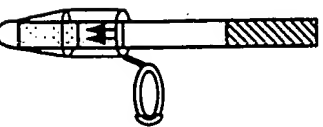
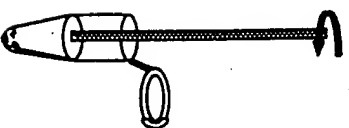
PREPARE MOSQUITOES FOR TEST →

HOMOGENIZE SAMPLE →

REMOVE THE GRINDER, PLUG DIPSTICK IN THE SAMPLE TUBE SHOWN IN THE FIGURE

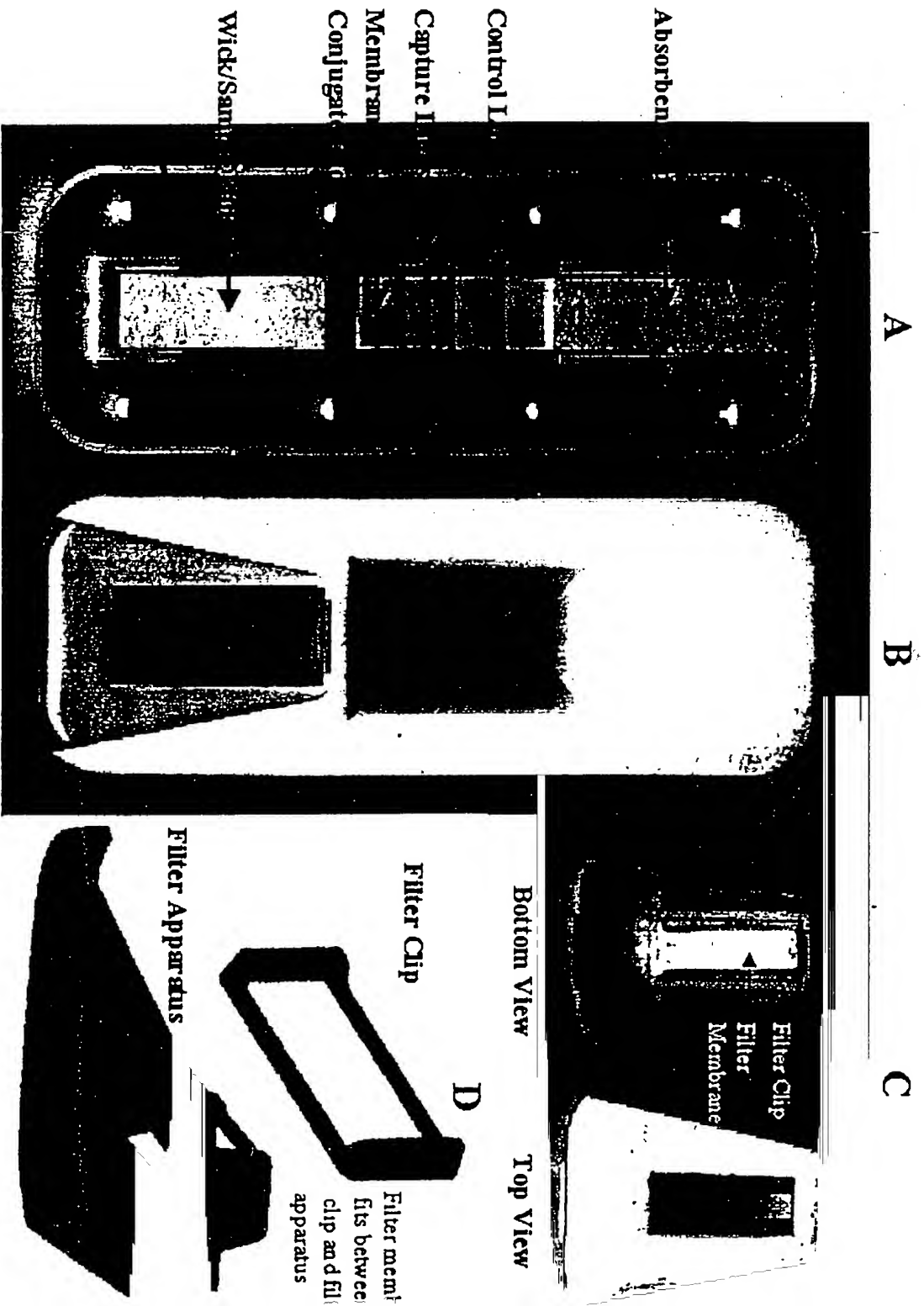


PLACE MOSQUITO PARTS (HEAD AND THORAX) INTO THE GIVEN TUBES WITH 250 µL (13 DROPS) OF GRINDING SOLUTION

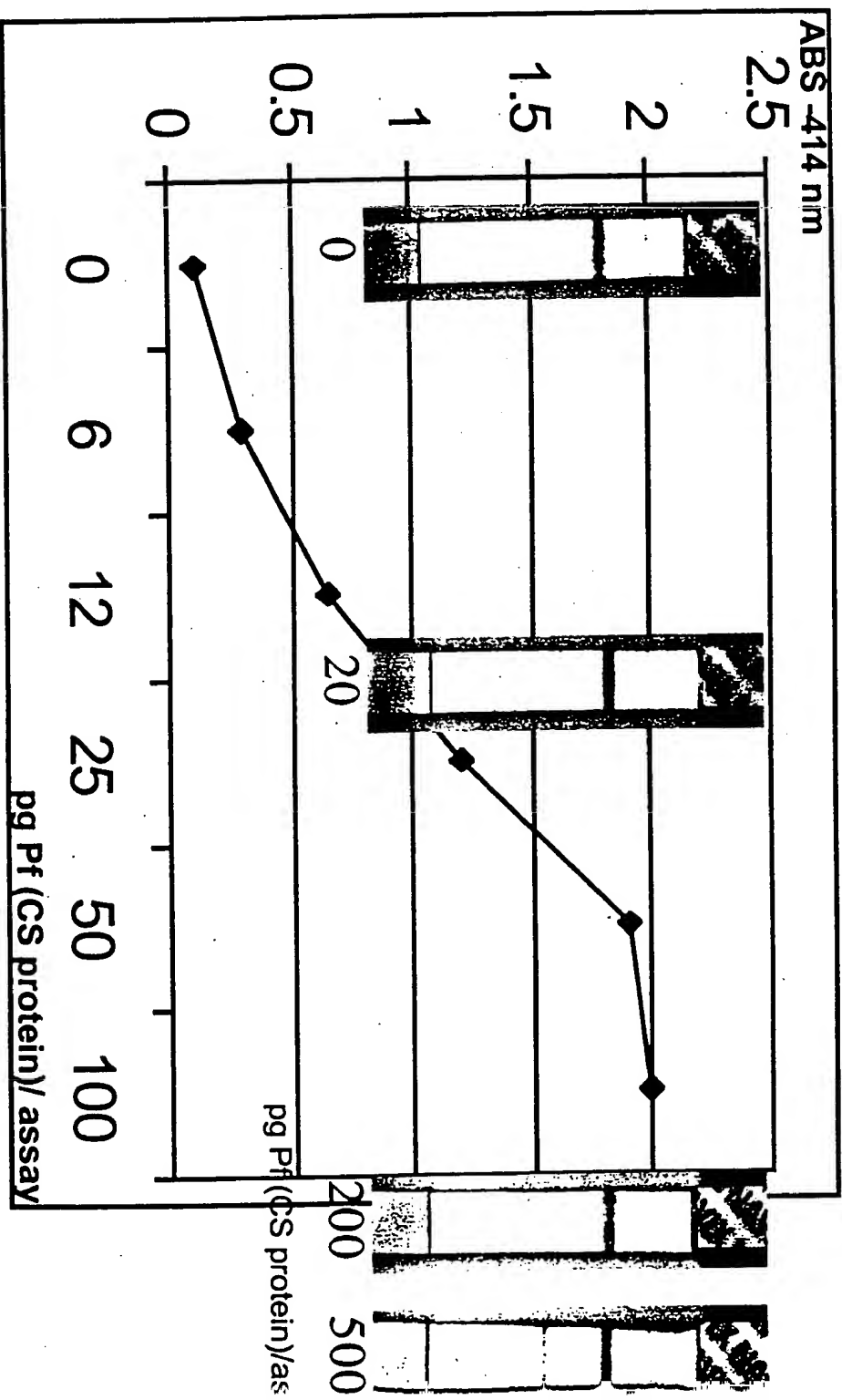


WAIT 15 MINUTES BEFORE RESULTS

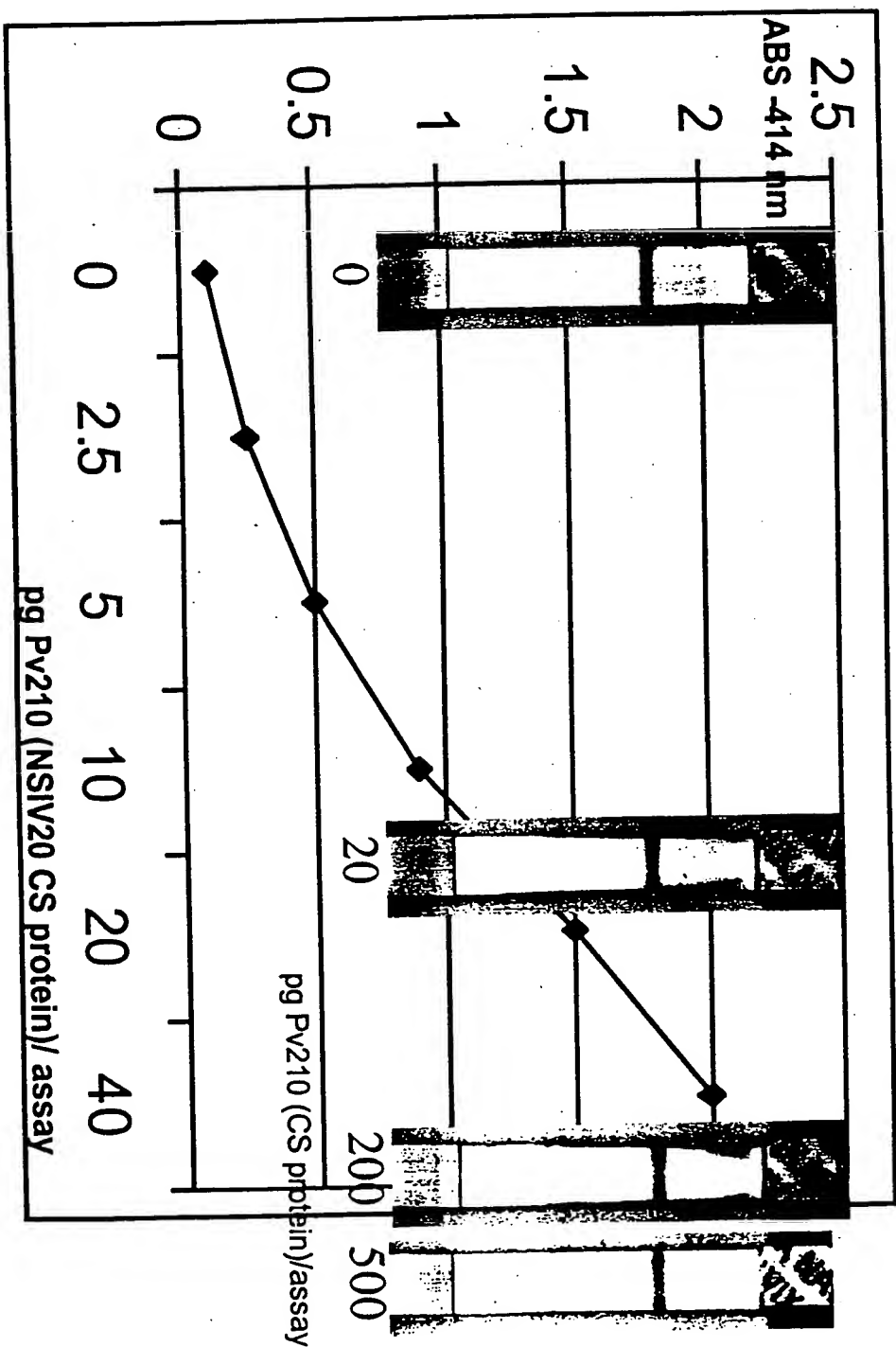
Figure 3:



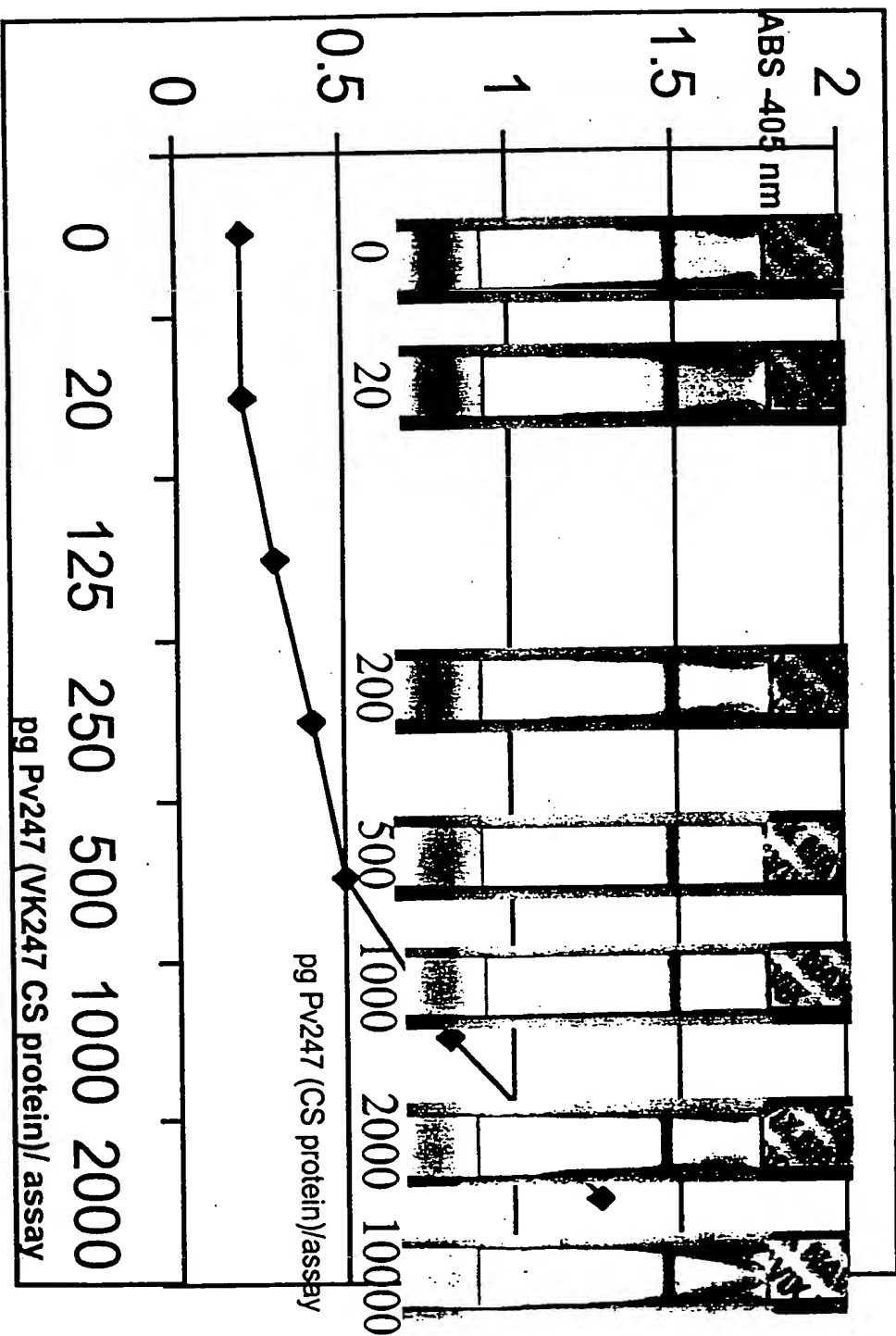
Plasmodium falciparum CS Protein Detection ELISA versus Dipstick: Figure 4



Plasmodium vivax 210 CS Protein Detection ELISA versus Dipstick: Figure 5



Plasmodium vivax 247 CS Protein Detection ELISA versus Dipstick: Figure 6



Panel Dipstick Detection of *Plasmodium* Sporozoites in Infected Mosquitoes: Figure 7

Mosquito (MQ) extract:

Pf infected mosquitoes

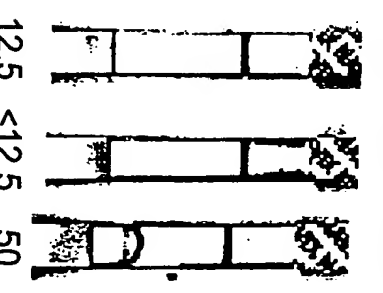
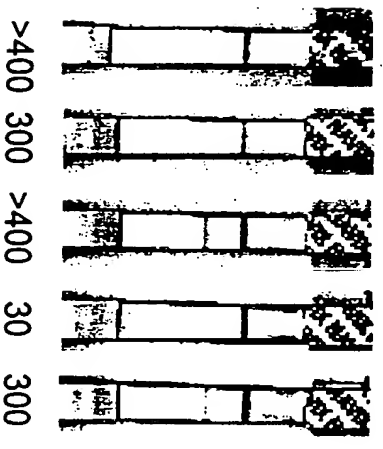
1MQ, 1MQ, 2MQ, 3MQ, 5MQ

Pv210 infected mosquitoes

1MQ, 1MQ, 2MQ, 3MQ, 5MQ

Pv247 infected mosq.

1MQ, 3MQ, 5MQ



Pf sporozoites

(ELISA result)

Pv210 sporozoites

(ELISA result)

Pv247 sporozoites

(ELISA result)

Sensitivity in ELISA:

~25-50 Pf sporozoites

~25-50 Pv210 sporozoites

~50 Pv247 sporozoites